

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
 Product name : SHA-2020

1.2. Recommended use and restrictions on use

Recommended use : Hand sanitizers

1.3. Supplier

PCAS CANADA
 725, Trotter Street
 J3B 8J8 SAINT-JEAN-SUR-RICHELIEU, QUEBEC - CANADA
 T (450) 348-0901 - F (450) 349-1528

1.4. Emergency telephone number

Emergency number : +44 1865 407333 (CARECHEM)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Flammable liquids Category 2 H225 Highly flammable liquid and vapour
 Serious eye damage/eye irritation Category 2 H319 Causes serious eye irritation

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS CA labeling

Hazard pictograms (GHS CA) :  

Signal word (GHS CA) : Danger

Hazard statements (GHS CA) : H225 - Highly flammable liquid and vapour
 H319 - Causes serious eye irritation

Precautionary statements (GHS CA) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 - Keep container tightly closed.
 P240 - Ground/bond container and receiving equipment.
 P241 - Use explosion-proof electrical/ventilating/lighting equipment.
 P242 - Use only non-sparking tools.
 P243 - Take action to prevent static discharges.
 P264 - Wash hands, forearms and face thoroughly after handling.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 - If eye irritation persists: Get medical advice/attention.
 P403+P235 - Store in a well-ventilated place. Keep cool
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
ethanol, ethyl alcohol		(CAS-No.) 64-17-5	60 - 70	Flam. Liq. 2, H225 Eye Irrit. 2, H319
Glycerol		(CAS-No.) 56-81-5	1 - 3	Not classified

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Move the affected person away from the contaminated area and into the fresh air. Allow the victim to rest. If experiencing respiratory symptoms: Call a poison center or a doctor.
- First-aid measures after skin contact : If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.
- First-aid measures after ingestion : Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention if you feel unwell.
- First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after inhalation : May cause drowsiness or dizziness.
- Symptoms/effects after eye contact : Causes serious eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

- Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

- Suitable extinguishing media : Water spray. Alcohol resistant foam. Carbon dioxide (CO2). Dry powder.

5.2. Unsuitable extinguishing media

- Unsuitable extinguishing media : Do not use water jet.

5.3. Specific hazards arising from the hazardous product

- Fire hazard : Highly flammable liquid and vapour. The vapors are denser than air and may travel along the ground. Distance ignition possible.
- Explosion hazard : vapors may form explosive mixture with air.

5.4. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Fight fire from safe distance and protected location. Do not breathe fumes from fires or vapors from decomposition. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus. Wear fire/flame resistant/retardant clothing.
- Precautionary measures fire : Evacuate the danger area. Avoid ignition sources.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Caution : this product can cause the floor to be slippery.

6.2. Methods and materials for containment and cleaning up

- For containment : Contain the spilled material by bunding. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
- Methods for cleaning up : Wash away residue with large amounts of water.
- Other information : Collect all waste in suitable and labeled containers and dispose according to local legislation.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with eyes. Do not breathe vapors. Provide good ventilation in process area to prevent formation of vapor. Avoid static electricity discharges. Proper grounding procedures to avoid static electricity should be followed. Remove all sources of ignition. Use only non-sparking tools.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation to minimize vapor concentrations. Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container closed when not in use. Protect from sunlight.

Incompatible materials : Oxidising agents.

Heat-ignition : Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition.

Special rules on packaging : Store in tightly closed containers. Store in original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethanol, ethyl alcohol (64-17-5)		
Alberta	OEL STEL (ppm)	1000 ppm
Alberta	Notations and remarks	URT irr
British Columbia	OEL STEL (ppm)	1000 ppm
British Columbia	Notations and remarks	URT irr
Manitoba	OEL STEL (ppm)	1000 ppm
New Brunswick	OEL STEL (ppm)	1000 ppm
Newfoundland & Labrador	OEL STEL (ppm)	1000 ppm
Nova Scotia	OEL STEL (ppm)	1000 ppm
Nunavut	OEL STEL (ppm)	1000 ppm
Northwest Territories	OEL STEL (ppm)	1000 ppm
Ontario	OEL STEL (ppm)	1 ppm
Ontario	Regulatory reference	Ontario OEL under Regulation 833
Prince Edward Island	OEL STEL (ppm)	1000 ppm
Prince Edward Island	Regulatory reference	URT irr
Saskatchewan	OEL STEL (ppm)	1250 ppm
Saskatchewan	OEL TWA (ppm)	1000 ppm
Glycerol (56-81-5)		
Canada (Quebec)	VEMP (mg/m ³)	10 mg/m ³
Alberta	OEL TWA (mg/m ³)	10
Alberta	Regulatory reference	URT irr
British Columbia	OEL TWA (mg/m ³)	10 mg/m ³ (mist)
Ontario	OEL Ceiling (mg/m ³)	10 mg/m ³
Ontario	Regulatory reference	Ontario OEL under Regulation 833
Saskatchewan	OEL STEL (mg/m ³)	20 mg/m ³
Saskatchewan	OEL TWA (mg/m ³)	10 mg/m ³

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Not required for normal conditions of use. Prolonged and/or repeated handling: Protective gloves

Eye protection:

Not required for normal conditions of use. Prolonged and/or repeated handling: Safety glasses

Skin and body protection:

Not required for normal conditions of use

Respiratory protection:

If the ventilation is suitable, it is not essential to wear respiratory equipment

Other information:

Emergency safety showers should be available in the immediate vicinity of any potential exposure. Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: clear.
Color	: Colorless
Odor	: Alcohol
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 35 °C (estimated value)
Flash point	: < 23 °C (estimated value) Ethanol : 12 - 13 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Vapor pressure at 50 °C	: No data available
Relative density	: 0.8 - 0.9
Solubility	: Soluble in water.
Log Pow	: No data available
Explosive properties	: vapors may form explosive mixture with air.
Oxidizing properties	: Non oxidizing material.
Explosion limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	: To our knowledge, the product does not present any particular risk, under normal conditions of use.
Chemical stability	: Stable at ambient temperature and under normal conditions of use.
Possibility of hazardous reactions	: Highly flammable liquid and vapour. The vapors are denser than air and may travel along the ground. Distance ignition possible.
Conditions to avoid	: Heat or source of heat. No flames, no sparks. Eliminate all sources of ignition.
Incompatible materials	: Oxidizing materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

ethanol, ethyl alcohol (64-17-5)	
LD50 oral rat	5 - 20 g/kg (INRS)
LD50 dermal rabbit	> 20 g/kg
LC50 inhalation rat (mg/l)	20000 - 30000 ppm
ATE CA (oral)	5000 mg/kg body weight
ATE CA (vapours)	20000 mg/l/4h
ATE CA (dust,mist)	20000 mg/l/4h
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified

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Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after eye contact	: Causes serious eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone	: Not classified
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SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Dispose of this material and its container at hazardous or special waste collection point. Do not empty into drains.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Do not discharge the product into the environment.

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

Transportation of Dangerous Goods

Not regulated for transport

14.2. Transport information/DOT

Department of Transport

DOT NA No	: UN1170
UN-No.(DOT)	: 1170
Packing group (DOT)	: II - Medium Danger
Transport document description	: UN1170 Ethanol solutions, 3, II
Proper Shipping Name (DOT)	: Ethanol solutions
Contains Statement Field Selection (DOT)	:
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Division (DOT)	: 3

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Hazard labels (DOT) : 3 - Flammable liquid



Dangerous for the environment : No

DOT Special Provisions (49 CFR 172.102) : 24 - Alcoholic beverages containing more than 70 percent alcohol by volume must be transported as materials in Packing Group II. Alcoholic beverages containing more than 24 percent but not more than 70 percent alcohol by volume must be transported as materials in Packing Group III.
IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 4b, 150

DOT Packaging Non Bulk (49 CFR 173.xxx) : 202

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

Emergency Response Guide (ERG) Number : 127

Other information : No supplementary information available.

14.3. Air and sea transport

IMDG

UN-No. (IMDG) : 1170

Proper Shipping Name (IMDG) : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

Transport document description (IMDG) : UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II

Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : II - substances presenting medium danger

IATA

UN-No. (IATA) : 1170

Proper Shipping Name (IATA) : Ethanol solution

Transport document description (IATA) : UN 1170 Ethanol solution, 3, II

Class (IATA) : 3 - Flammable Liquids

Packing group (IATA) : II - Medium Danger

SECTION 15: Regulatory information

15.1. National regulations

ethanol, ethyl alcohol (64-17-5)

Listed on the Canadian DSL (Domestic Substances List)

Glycerol (56-81-5)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

ethanol, ethyl alcohol (64-17-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Glycerol (56-81-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

SECTION 16: Other information

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EN (English US)

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Full text of H-phrases:

H225	Highly flammable liquid and vapour
H319	Causes serious eye irritation

SDS Canada (GHS) - SEQENS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.